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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

The re application of: Moss et al.

Application No. 10/517,565 **Filed:** December 7, 2004

Confirmation No. Not yet assigned

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TRYPTOPHAN AS A FUNCTIONAL REPLACEMENT FOR ADP-RIBOSE-

ARGININE IN RECOMBINANT

PROTEINS

Examiner: Not yet assigned Art Unit: Not yet assigned

Attorney Reference No. 4239-64830-06

CERTIFICATE OF MAILING

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Agent

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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT PURSUANT TO 37 C.F.R. § 1.97(b)(3)

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Listed on the accompanying form PTO-1449 and enclosed herewith are several English-language and/or non-English-language documents. Applicants respectfully request that these documents be listed as references cited on the issued patent.

Applicants filed this Information Disclosure Statement ("IDS") before the mailing date of a first Office action on the merits. As a result, no fee should be required to file this IDS.

However, if the Patent Office determines that a fee is required for Applicants to file this IDS, please charge any such fees, or credit overpayment, to Deposit Account No. 02-4550. A duplicate copy of the transmittal letter for this IDS is enclosed.



The filing of this IDS shall not be construed to be an admission that the information cited in the statement is, or is considered to be, prior art or otherwise material to patentability as defined in 37 C.F.R. §1.56.

Respectfully submitted,

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EMENT BY APPLICANT

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Examiner's Initials*	Cite No. (optional)	OTHER DOCUMENTS		
	BALDUCCI et al., "Selective Expression of RT6 Superfamily in Human Bronchial			
		Epithelial Cells," Am. J. Respir. Cell Mol. Biol. 21:337-346, 1999		
		BORTEL et al., "Levels of Art2+ ce		
expression of autoimmune diabetes in the BB rat," <i>Automimmunity</i> 33(3):199-211, abstract only			ty 33(3):199-211, 2001,	
		BORTELL et al., "Nicotinamide ade		
	lymphocyte proliferation: role of cell surface NAD glycohydrolase and pyrophosphatase			se and pyrophosphatase
		activities," J. Immunol. 167(4):2049		DD '1 1, C 1
	BOURGEOIS et al., "Identification of Regulatory Domains in ADP-ribosyltransferase- That Determine Transferase and NAD Glycohydrolase Activities," 278(29):26351-263: 2003			
				," 2/8(29):26351-26355,
BREDEHORST <i>et al.</i> , "Using secondary structure predictions and site-directed mutagenesis to identify and probe the role of potential active site motifs in the RT6			d site-directed	
mond	mono(ADP-ribosyl)transferase," Adv Exp Med Biol 419:185-189, 1997, abstract only			
	DOMENIGHINI et al., "Three conserved consensus sequences identify the NAD-binding			
site of ADP-ribosylating enzymes, expressed by eukaryotes, bacteria and T-even bacteriophages," <i>Mol. Microbiol.</i> 21(4):667-674, 1996, abstract only GREINER et al., "Absence of the RT-6 T cell subset in diabetes-prone BB/W rats, <i>J. Immunol.</i> 136(1):148-151, 1986, abstract only HAAG et al., "Premature stop codons inactivate the RT6 genes of the human and				
		prone BB/W rats, J.		
	chimpanzee species," J. Mol. Biol. 2			
		HAN et al., "Regulation of NAD+ g ADP-ribosylation," Biochem. J. 318		AD+ -dependent auto-
HARA et al., "Glutamic Acid 207 in Rodent T-cell RT6 Antigens Is Essential for Arginine-specific ADP-ribosylation," J. Biol. Chem. 271(47):29552-29555, 1999 HARA et al., "Mouse Rt6.1 is a thiol-dependent arginine-specific ADP-ribodyltransferase," Eur. J. Biochem. 259:289-294, 1999		s Is Essential for		
		552-29555, 1996		
		c ADP-		
		ribodyltransferase," Eur. J. Biochen	n. 259:289-294, 1999	
		KARSTEN et al., "Expression and c	•	
RT6 T cell mono(ADP-ribosyl)transferase in E. coli," Adv. Exp. Med. Biol. 1997, abstract only		Med. Biol. 419:175-180,		
		KOCH et al., "The rat T-cell differe		
		alloantigenic counterpart RT6.2," In	munology 65(2):259-265, 19	988, abstract only

EXAMINER	DATE
SIGNATURE:	CONSIDERED:

^{*} Examiner: Initial if reference considered, whether or not in conformance with MPEP 609. Draw line through cite if not in conformance and not considered. Include copy of this form with next communication to applicant.

	Attorney Docket Number	4239-64830-06	
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STATEMISNT BY APPLICANT	First Named Inventor	Moss	
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JAN 0 6 2005 2	Examiner Name	Not yet assigned	
KOCH-NOLTE et al., "Mouse T Ce	Il Membrane Proteins Rt6-1	and Rt6-2 Are	
Arginine/Protein Mono(ADPribosyl	•		
with ADP-ribosylating Bacterial 103			
1	LESMA et al., "Characterization of High Density Lipoprotein-Bound and Soluble RT6		
Released Following Administration 161:1212-1219, 1998	of Anti-RT6.1 Monoclonal A	Antibody," J. Immunol.	
MAEHAMA et al., "NAD -depend			
RT6.1 Reversibly Proceeding in Inta 22751, 1995	RT6.1 Reversibly Proceeding in Intact Rat Lymphocytes," J. Biol. Chem. 270(39):22747-		
MAEHAMA et al., "Increase in AD			
	alloantigen RT6.1 by a single amino acid mutation," FEBS Lett 388(2-3):189-191, 1996,		
abstract only			
	MAEHAMA et al., "Molecular characterization of rat T lymphocyte alloantigen RT6.1 as		
<u> </u>	an ADP-ribosyltransferase," <i>Adv Exp Med Biol</i> 419:181-183, 1997, abstract only MOJCIK <i>et al.</i> , "Characterization of RT6-bearing rat lymphocytes. II. Developmental relationships of RT6- and RT6+ T cells," <i>Dev Immunol.</i> 1(3):191-201, 1991, abstract		
only			
	MOSS et al., "ADP-ribosylarginie hydrolases and ADP-ribosyltransferases. Partners in		
1	ADP-ribosylation cycles," Adv. Exp. Med. Biol. 419:25-33, 1997, abstract only		
1 '	MOSS et al., "Characterization of Mouse Rt6.1 NAD:Arginine ADP-ribosyltransferase,"		
	J. Biol. Chem. 272(7):4342-4346, 1997		
	MOSS <i>et al.</i> , "Characterization of NAD:arginine ADP-ribosyltransferases," <i>Mol Cell Biochem</i> 193(1-2):109-113, 1999, abstract only		
I	NEMOTO et al., "Cell surface ADP-ribosyltransferase regulates lymphocyte function-		
	associated molecule-1 (LFA-1) function in T cells," J. Immunol. 157(8):3341-3349, 1996,		
abstract only	41.11	T C C	
OKAZAKI <i>et al.</i> , "Glycosylphosphatidylinositol-anchored and Secretory Isoforms of Mono-ADP-ribosyltransferases," <i>J. Biol. Chem.</i> 273(37):23617-23620, 1998			
	PAONE <i>et al.</i> , "ADP ribosylation of human neutrophil peptide-1 regulates its biological properties," <i>PNAS</i> 99(12):8231-8235, 2002		
	RIGBY et al., "Rat RT6.2 and mouse Rt6 locus 1 are NAD+: arginine ADP		
ribosyltransferases with auto-DP ribosylation activity," <i>J Immunol</i> 156(11):4259-4265,			
1996, abstract only			
STEVENS et al., "Regulatory Role			
Alloantigens ART2a and ART2b," J	I. Biol. Chem. 278(22)19591-	-19596, 2003	

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TAKADA et al., "Expression of N	AD Glycohydrolase Activity	by Rat Mammary
Adenocarcinoma Cells Transforme	ed with Rat T Cell Alloantigen	RT6.2," J. Biol. Chem.
269(13):9420-9423, 1994		
THIELE et al., "Biochemical char		ntigen RT-6.2,"
Immunology 59(2):195-201, 1986,		
WAITE et al., "The RT6 rat lympl		soluble form," Cell
Immunol. 152(1):82-95, 1993, abs		TAD 01 1 1 1
WENG et al., "Modification of the Activities of a Mammalian Transfe		
ribosylation," J. Biol. Chem. 274(4	•	3) by Auto-ADP-
YAMADA et al., "Automodificati		ihosyltransferase nurified
from chicken peripheral heterophi		
Biochem Biophys 308(1):31-36, 19		,,
ZOLKIEWSKA et al., "Molecular	characterization of NAD:argi	
ribosyltransferase from rabbit skel	etal muscle," Proc. Natl. Acad	l. Sci. USA 89:11352-
11356, 1992		······································
ZOLKIEWSKA et al., "Integrin α		-
anchored ADP-ribosyltransferase	on the Surface of Skeletal Mus	scle Cells," J. Biol. Chem
268(34):25273-25276, 1993		
GenBank Accession No. NP_0019	16, 26 Oct 2004	
GenBank Accession No. NP_0019	17, 26 Oct 2004	
GenBank Accession No. NP_0662	90, 26 Oct 2004	
GenBank Accession No. P11479,	15 Sep 2003	

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